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BENDIX RADIO PART NUMBER

LTR	DESCRIPTION

DATA TEST J5 J6 CLOCK TEST J7

CR1 XTAL OSC 1 MC Z59 T311 -12V

FF Z54 T303 C4 1600pf

COMP EF Z48 T307

EXCL OR Z42 T315 680Ω R17 R19 820Ω R18 330Ω

Z48 PIN 7&8 1μs .5μs

Z42 PIN 7

P/O J1 REQUEST FROM DTS (SHIELD CONNECTED TO PIN B) A H

C1 .1μfd R1 15K R2 15K C2 4.7μf C3 4.7μfd

LEVEL SHIFTER Z65 T106

S25 PUSH TO TEST J3 J4 JUMPER FOR TEST

MV 10 PPS Z64 T104

PULSE OR Z61 T430

SS APPROX 10μs Z60 T107

DRIVER Z56 T302

S FF R Z55 T801

S FF R Z37 T101B

G G FF Z43 T801

AND GATE Z49 ½T802

EF EF Z51 T307

INV Z58 ½U811 C6 .1μf R3 5.6K CLOCK

R4 5K C8 240μμf C7 120μμf 560Ω R9 R5 5K C11 240μμf C12 120μμf

3-6 μsec DELAY Z63 U815

3-6 μsec ADJ PULSE "WIDTH" MULTI. Z66 U815

DRIVER DATA DRIVER Z70 U812

DRIVER CLOCK DRIVER Z69 U812

R8 560Ω C13 .15μfd 20V R20 330Ω R21 330Ω C14 15μfd 20V

R6 5K C9 240μμf C10 120μμf SS 1.5μsec Z62 U815

FF Z67 U813

INV Z57 U811

R7 5.6K C15 0.1μfd

AND GATE Z50 ½T802

SAMPLE SHIFT 1 2 3 24 1 2 23 24 .15μs

P/O J1 PT02A-12-10S

C16 470 1N128 R11 2.7K R12 330 Q1 2N697 T1 C18 470 R16 100 R13 27 1N128 +12

CLOCK E CLOCK TO DTS

CLOCK K CLOCK RETURN

C17 470 1N128 R22 1.5K R10 330 Q2 2N697 T2 C19 470 R15 27 R14 1800 1N128 R23 100 +12

DATA J DATA TO DTS

C DATA RETURN

H COMMON

B CHASSIS GND D F

PIN3 Z69 .3-6 μs 3-6 μs CLOCK TO DTS

PIN8 Z67 1.5μs .5μs DATA TO DTS

PIN7 Z62 .5μs TO RESET INPUT PIN2 Z57

PIN8 Z57 1μs

PIN7 Z57 1μs TO SET INPUT PIN3 Z67

PIN8 Z50 1μs

C5 3900pf LOAD SHIFT REGISTER

FF Z44 T101B

FF Z38 T101B

AND GATE Z39 ½T802

AND GATE Z45 T802

FF Z40 T101B

FF Z41 T101B

FF Z68 T303

SQUARER Z46 T306

INV Z52 T137

EF Z53 T114

DRIVER Z47 T302

SAMPLE

DS25 F1 1.5A S26 J2 PT02A-14-5P C 28V UNREG E 28V RET

DS26 A B 115VAC 400~

F2 ½A F3 ¼A ZA721 PS1 -12V ZA723 PS2 +12V

T1 & T2 "STAT-TRAN" PE 2230 (SUB. 1:1)

THIS POINT TIED TO CHASSIS ONLY AT POINT SHOWN

S24 DS24 S23 DS23 S22 DS22 S2 DS2 S1 DS1 "0" "1" -12V +12V

AND GATE T802 Z25 AND GATE T802 Z26 AND GATE T802 Z36

24 BIT SHIFT REGISTER 24-T801 12-T802 24 LIGHTS & DPDT SWITCHES

SHIFT

S FF R T801 Z24 S FF R T801 Z23 S FF R T801 Z23 S FF R T801 Z2 S FF R T801 Z1

G G

REVISION OF 11-13-63

REQD DASH-2	REQD DASH-1	PART NUMBER	ITEM	DESCRIPTION	REFERENCE DESIGNATION

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED 2 PLACE DEC: ± 3 PLACE DEC: ± COMMERCIAL PUBLISHED TOLERANCES SHALL APPLY TO SIZES OF BAR, ROD, WIRE, SHEET, TUBE, ETC. WHEN MARKED WITH AN ASTERISK (*). PLATED PARTS MUST FIT GAGES AND MEET SPECIFIED TOLERANCES AFTER PLATING.

MATERIAL

FINISH

CAUTION UNLESS THIS DRAWING BEARS THE PRINTED NAMES OF TWO AUTHORIZED ENGINEERING REPRESENTATIVES IN THE BLOCKS NOTED 'A', IT IS PRELIMINARY AND UNDER NO CIRCUMSTANCES IS IT TO BE USED FOR MANUFACTURING PURPOSES.

D LINS 9-10-63 C A A

SCALE WT ACT CALC

WIRING SCHEMATIC COMPUTER WORD GENERATOR

THE Bendix CORPORATION BENDIX RADIO DIVISION BALTIMORE 4, MARYLAND

ADD DASH NUMBER TO FORM PART NUMBER 2026880

DASH NO.	NEXT ASSY	USED ON	NEXT ASSY	FINAL ASSY
	APPLICATION	MSFD5	QTY REQD	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LANGLEY RESEARCH CENTER LANGLEY FIELD, VA.

CONTRACT NAS-5-3060

NASA AIRCRAFT

NASA DWG. NO.

2026880